

AMENDMENTS TO THE CLAIMS

1. (currently amended): [[A]] An aqueous polyurethane dispersion consisting of a polyurethane prepolymer produced from the reaction of an excess of a polyisocyanate and a molecule having hydrogen active moieties, optionally a chain extender, and optionally a surfactant, wherein the polyisocyanate consists of (i) trans-1,4-bis(isocyanatomethyl)cyclohexane or (ii) an isomeric mixture of two or more of cis-1,3-bis(isocyanatomethyl)cyclohexane, trans-1,3-bis(isocyanatomethyl)cyclohexane, cis-1,4-bis(isocyanatomethyl)cyclohexane and trans-1,4-bis(isocyanatomethyl)cyclohexane, with the proviso said isomeric mixture consists of comprises at least about 5 weight percent of said trans-1,4-bis(isocyanatomethyl)cyclohexane, wherein the dispersion further consists of from about 0.01 to about 0.5 parts organometallic compounds per 100 parts polyurethane prepolymer, by weight.

2. (canceled)

3. (canceled)

4. (canceled)

5. (original): The dispersion of Claim 1 wherein the molecule having hydrogen active moieties is a polyol or polyol blend having a weight average molecular weight of 300 to 10,000 and an average functionality of 1.8 to 4.5.

6. (original): The dispersion of Claim 5 wherein the polyol is an aliphatic or aromatic polyol selected from a polyester, a polyether, polylactone, polyolefin, polycarbonate or a blend thereof.

7. (original): The dispersion of Claim 1 wherein the dispersion contains a polyamine chain extender.

8. (original): The dispersion of Claim 7 wherein the chain extender is selected from piperazine, ethylenediamine or bis(aminomethyl)cyclohexane.

9. (canceled)

10. (original): The dispersion of Claim 1 wherein the dispersion contains an anionic, ionic, cationic or zwitterionic external surfactant.

11. (original): The dispersion of Claim 1 wherein the dispersion is stabilized by means of an internal surfactant.

12. (canceled)

13. (original): A coating, film, elastomer or microcellular foam produced from the dispersion of Claim 1.

14. (original): A ultraviolet or light stable coating, film or elastomer produced from the dispersion of Claim 1.

15. (canceled)

16. (currently amended): A polyurethane dispersion consisting essentially of a polyurethane prepolymer produced from the reaction of an excess of a polyisocyanate and a polyol having a weight average molecular weight of 300 to 10,000 and an average functionality of 1.8 to 4.5, optionally a chain extender and optionally a surfactant, wherein the polyisocyanate consists essentially of e~~comprises~~ a bis(isocyanatomethyl)cyclohexane compound, and wherein the polyol is an aliphatic or aromatic polyol selected from a polyester, a polyether, polylactone, polyolefin, polycarbonate or a blend thereof; wherein the dispersion further consists essentially of from about 0.01 to about 0.5 parts organometallic compounds per 100 parts polyurethane prepolymer, by weight.

17. (currently amended): A polyurethane dispersion comprising a polyurethane prepolymer produced from the reaction of an excess of a polyisocyanate and a molecule having hydrogen active moieties, optionally a chain extender and optionally a surfactant, wherein the polyisocyanate comprises a bis(isocyanatomethyl)cyclohexane compound, wherein the dispersion comprises 30 to 75 weight percent solids, and wherein the solids comprise particles having a mean particle size of less than about 5 microns; wherein the dispersion further comprises from about 0.01 to about 0.5 parts organometallic compounds per 100 parts polyurethane prepolymer, by weight.

18. (currently amended): The dispersion of ~~any of claims 1, 16 or claim~~ 17 further comprising tertiary amines, ~~organometallic compounds and mixtures thereof.~~

19. (canceled)

20. (new): The dispersion of Claim 17 wherein the polyurethane is dispersed in an aqueous medium.

21. (new): The dispersion of Claim 20 wherein the aqueous medium comprises less than 5 percent residual organic solvent.

22. (new): The dispersion of Claim 17 wherein the molecule having hydrogen active moieties is a polyol or polyol blend having a weight average molecular weight of 300 to 10,000 and an average functionality of 1.8 to 4.5.

23. (new): The dispersion of Claim 22 wherein the polyol is an aliphatic or aromatic polyol selected from a polyester, a polyether, polylactone, polyolefin, polycarbonate or a blend thereof.

24. (new): The dispersion of Claim 17 wherein the dispersion comprises a polyamine chain extender.

25. (new): The dispersion of Claim 24 wherein the chain extender is selected from piperazine, ethylenediamine or bis(aminomethyl)cyclohexane.

26. (new): The dispersion of Claim 17 wherein the dispersion comprises 30 to 75 weight percent solids.

27. (new): The dispersion of Claim 17 wherein the dispersion comprises an anionic, ionic, cationic or zwitterionic external surfactant.

28. (new): The dispersion of Claim 17 wherein the dispersion is stabilized by means of an internal surfactant.

29. (new): A coating, film, elastomer or microcellular foam produced from the dispersion of Claim 17.

30. (new): A ultraviolet or light stable coating, film or elastomer produced from the dispersion of Claim 17.

31. (new): The dispersion of claim 17 wherein the polyisocyanate comprises 0.1 to 20 percent by weight of at least one polyisocyanate other than bis(isocyanatomethyl)cyclohexane.

32. (new): An aqueous polyurethane dispersion comprising a polyurethane prepolymer produced from the reaction of an excess of a polyisocyanate and a molecule having hydrogen active moieties, optionally a chain extender, and optionally a surfactant, wherein the polyisocyanate comprises (i) trans-1,4-bis(isocyanatomethyl)cyclohexane or (ii) an isomeric mixture of two or more of cis-1,3-bis(isocyanatomethyl)cyclohexane, trans-1,3-bis(isocyanatomethyl)cyclohexane, cis-1,4-bis(isocyanatomethyl)cyclohexane and trans-1,4-bis(isocyanatomethyl)cyclohexane, with the proviso said isomeric mixture comprises at least about 5 weight percent of said trans-1,4-bis(isocyanatomethyl)cyclohexane, wherein the dispersion further comprises from about 0.01 to about 0.5 parts organometallic compounds per 100 parts polyurethane prepolymer, by weight.